```
(1)查询指定列
 ● 查询通用语法格式
SELECT select_expr [, select_expr ...]
   FROM table_references
   [WHERE where_condition]
   [GROUP BY {col_name | position} [ASC | DESC], ...]
   [HAVING where_condition]
   [ORDER BY {col_name | position | expr} [ASC | DESC], ...]
   [LIMIT {[offset,] row_count | row_count OFFSET offset}]
]
* select_expr 查询表达式
   * 每一个表达式表示想要的一列,必须至少有一个,多个列之间以英文逗号分隔
   * 表示所有列 tb1_name.*表示某表的所有列
   * 查询表达式可以使用[AS] alias_name为其赋予别名
   * 别名可用于GROUP BY, ORDER BY或HAVING子句

    查询所有列

mysql> create table if not exists book(
   -> id int unsigned primary key auto_increment,
   -> title varchar(100) not null,
  -> author varchar(40) not null,
   -> date date
  -> );
Query OK, 0 rows affected (0.17 sec)
mysql> insert book (title,author,date) values('java','US',NOW());
Query OK, 1 row affected, 1 warning (0.05 sec)
mysql> insert book (title,author,date) values('mysql','Oracle','2018-11-11');
Query OK, 1 row affected (0.03 sec)
mysql> insert book (title,author,date) values('android','google',NOW());
Query OK, 1 row affected, 1 warning (0.07 sec)
mysql> select * from book;
+---+
| id | title | author | date
+---+
| 1 | java | US | 2018-11-12 |
| 2 | mysql | Oracle | 2018-11-11 |
| 3 | android | google | 2018-11-12 |
+---+
3 rows in set (0.01 sec)
 查询指定列
mysql> select title, author from book;
+----+
| title | author |
+----+
l java I US I
     | Oracle |
l mysql
I android I google I
+----+
3 rows in set (0.00 \text{ sec})
 别名查询(as可不写)
mysql> select title as book_title,author as book_author from book;
+----+
| book_title | book_author |
+----+
        I US
l java
l mysql
        l Oracle
I android I google
+----+
3 rows in set (0.01 sec)
(2) where条件查询
 and、or指定多个条件
mysql> select * from book where id>1;
+---+
| id | title | author | date
+---+
+---+
2 rows in set (0.04 sec)
mysql> select * from book where id>1 and author='google';
+---+
| id | title | author | date
+---+
 3 | android | google | 2018-11-12 |
+---+
1 row in set (0.03 sec)
mysql> select * from book where id>1 or author='US';
+---+
| id | title | author | date
+---+
| 1 | java | US | 2018-11-12 |
3 | android | google | 2018-11-12 |
+---+
3 rows in set (0.00 \text{ sec})
(3) like模糊匹配
 LIKE 子句中使用百分号 %字符来表示任意字符
mysql> select * from book where author like '%le';
+---+
| id | title | author | date
+---+
```

## | 2 | mysql | Oracle | 2018-11-11 |

2 rows in set (0.02 sec)

查询个数和偏移

```
(4) limit/offset
```

3 | android | google | 2018-11-12 | +---+

mysql> select \* from book limit 2; +---+

+---+ | 1 | java | US | 2018-11-12 |

| id | title | author | date

| 2 | mysql | Oracle | 2018-11-11 | +---+ 2 rows in set (0.00 sec)

[LIMIT { [offset,] row\_count | row\_count OFFSET offset}]

```
mysql> select * from book limit 2 offset 1;
+---+
| id | title | author | date
+---+
+---+
2 rows in set (0.00 sec)
mysql> select * from book limit 1,2;
+---+
| id | title | author | date
+---+
| 3 | android | google | 2018-11-12 |
+---+
2 rows in set (0.00 sec)
(5) 排序
 [ORDER BY {col_name} [ASC/DESC] ]
 默认: 升序
 • ASC: 升序
 DESC: 降序
mysql> select * from book order by id ASC;
+---+
```

## +---+ | 1 | java l US | 2 | mysql | Oracle | 2018-11-11 |

+---+ 3 rows in set (0.02 sec)

+---+

+---+

| id | title | author | date

mysql> select \* from book order by id DESC;

| 2018-11-12 |

| id | title | author | date

3 | android | google | 2018-11-12 | | Oracle | 2018-11-11 | l 2 l mysql | 1 | java +---+ 3 rows in set (0.00 sec)mysql> select \* from book order by id; +---+ | id | title | author | date +---+ | 1 | java | 2 | mysql | Oracle | 2018-11-11 | 3 | android | google | 2018-11-12 | +---+ 3 rows in set (0.00 sec)

+---+

+---+

| id | title | author | date

| id | title | author | date

3 rows in set (0.16 sec)

+---+ | 1 | java | US | 2018-11-12 | +---+

mysql> select \* from book group by date;

mysql> select \* from book order by date asc,id desc;

1 | java | US | 2018-11-12 | +---+ 3 rows in set (0.02 sec) (6) 分组 ● 查询结果分组-[GROUP BY {col\_name | position} [ASC | DESC], ...] (ASC升序、DESC降序) ● 筛选结果按GROUP之后列排序,相同的只保留第一个,其它的略去 ● 可指定列名分组、也可写1、2、3....指定按第几列分组 mysql> select \* from book; +---+

## +---+ | id | title | author | date +---+

| 2 | mysql | Oracle | 2018-11-11 | | 1 | java | US | 2018-11-12 | +---+ 2 rows in set (0.03 sec) mysql> select \* from book **group by 1**; +---+ | id | title | author | date +---+ l 1 | java | 2 | mysql | Oracle | 2018-11-11 | +---+ 3 rows in set (0.01 sec)mysql> select \* from book group by 4; +---+ | id | title | author | date +---+ | 2 | mysql | Oracle | 2018-11-11 | | 1 | java | US | 2018-11-12 | +---+ 2 rows in set (0.00 sec) (7) having ● HAVING 语句中的字段在选择条件中必须有,此处为date,选择语句中只有id,所以不符合 mysql> select id from book having id > 1;

```
+---+
l id l
+---+
1 2 1
1 3 1
+---+
2 rows in set (0.06 sec)
mysql> select id from book having date='2018-11-11';
//* HAVING 语句中的字段在选择条件中必须有,此处为date,选择语句中只有id,所以不符合
ERROR 1054 (42S22): Unknown column 'date' in 'having clause'
mysql> select id, date from book having date='2018-11-11';
| id | date
+---+
| 2 | 2018-11-11 |
+---+
1 row in set (0.00 sec)
```